

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
9 October 2003 (09.10.2003)

PCT

(10) International Publication Number
WO 03/082924 A1

(51) International Patent Classification⁷: C07K 014/415,
A61K 038/16, A61P 037/08

(74) Agents: OBRANOVICH, Tania, D. et al.; Davies Colli-
son Cave, 1 Little Collins Street, Melbourne, Victoria 3000
(AU).

(21) International Application Number: PCT/AU03/00403

(22) International Filing Date: 2 April 2003 (02.04.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
PS 1482 2 April 2002 (02.04.2002) AU

(71) Applicant (for all designated States except US):
MONASH UNIVERSITY [AU/AU]; Wellington Road,
Clayton, Victoria 3168 (AU).

(72) Inventors; and

(75) Inventors/Applicants (for US only): O'HEHIR, Robyn
[AU/AU]; Department of Pathology and Immunology, Cen-
tral and Eastern Clinical School, Monash University, Alfred
Hospital, Commercial Road (AU). ROLLAND, Jennifer
[AU/AU]; Department of Pathology and Immunology, Cen-
tral and Eastern Clinical School, Monash University, Alfred
Hospital, Commercial Road (AU).

(81) Designated States (national): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD,
SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US,
UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

..... with international search report

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.



WO 03/082924 A1

(54) Title: IMMUNOTHERAPEUTIC AND IMMUNOPROPHYLACTIC REAGENTS

(57) Abstract: The present invention relates generally to molecules such as peptides, polypeptides and proteins which interact immunologically with T lymphocytes in subjects having Rye grass pollen allergy and genetic sequences encoding same. These molecules are preferentially immunointeractive with T cells in subjects having a Rye grass pollen allergy. The molecules of the present invention are useful in the development of diagnostic, therapeutic and prophylactic agents for conditions characterised by an aberrant, inappropriate or otherwise unwanted immune response to Rye grass pollen or derivative or homologue thereof.